

Form PTO/SB/08A (Modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 8

Complete if known

Application Number 09/996,419
Filing Date November 28, 2001
First Named Inventor Yulun Wang
Group Art Unit 3731
Examiner Name Unknown
Attorney Docket Number 155695-0244 (P006XCC)

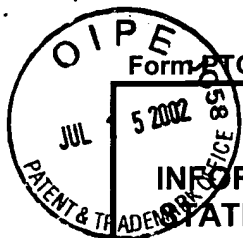
U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code			
TP	1.	5,515,478		Wang	05-07-1996	
	2.	5,878,193		Wang et al.	03-02-1999	
	3.	5,657,429		Wang et al.	08-12-1997	
	4.	5,754,741		Wang et al.	05-19-1998	
	5.	5,476,010		Fleming et al.	12-19-1995	
	6.	5,257,999		Slanetz, Jr.	11-02-1993	
	7.	5,417,210		Funda et al.	05-23-1995	
	8.	5,749,362		Funda et al.	05-12-1998	
	9.	5,305,427		Nagata	04-19-1994	
	10.	5,221,283		Chang	06-22-1993	
	11.	5,201,743		Haber et al.	04-13-1993	
	12.	5,339,799		Kami et al.	08-23-1994	
	13.	5,626,595		Sklar et al.	05-06-1997	
	14.	5,357,962		Green	10-25-1994	
	15.	5,345,538		Narayannan et al.	09-06-1994	
	16.	5,271,384		McEwen et al.	12-21-1993	
	17.	6,259,806		Green, et al.	07-10-2001	
	18.	6,223,100		Green	04-24-2001	
	19.	5,228,429		Hatano	07-20-1993	
	20.	5,289,365		Caldwell et al.	02-22-1994	
	21.	5,230,623		Guthrie et al.	07-27-1993	
	22.	5,371,536		Yamaguchi	12-06-1994	
	23.	5,408,409		Glassman et al.	04-18-1995	
	24.	5,201,325		McEwen et al.	4-13-1993	
	25.	5,187,574		Kosemura et al.	02-16-1993	
	26.	5,184,601		Putman	02-09-1993	
	27.	5,182,641		Diner et al.	01-26-1993	
	28.	6,231,526		Taylor, et al.	05-15-2001	
	29.	6,024,695		Taylor et al.	02-15-2000	
	30.	6,201,984		Funda, et al.	03-13-2001	
	31.	5,630,431		Taylor	05-20-1997	
	32.	5,402,801		Taylor	04-04-1995	
	33.	5,950,629		Taylor et al.	09-14-1999	
TP	34.	5,445,166		Taylor	08-29-1995	

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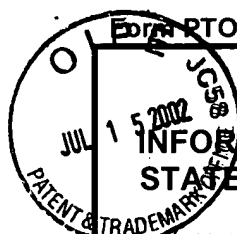
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				Group Art Unit	3731
				Examiner Name	Unknown
Sheet	2	of	8	Attorney Docket Number	155695-0244 (P006XCC)

TP	35.	5,695,500		Taylor et al.	12-09-1997	
	36.	5,279,309		Taylor et al.	01-18-1994	
	37.	5,313,306		Kuban et al.	05-17-1994	
	38.	5,166,513		Keenan et al.	11-24-1992	
	39.	5,300,926		Stoeckl	04-05-1994	
	40.	5,388,987		Badoz et al.	02-14-1995	
	41.	5,368,015		Wilk	11-29-1994	
	42.	5,217,003		Wilk	06-08-1993	
	43.	5,506,912		Nagasaki et al.	04-09-1996	
	44.	5,145,227		Monford, Jr.	09-08-1992	
	45.	5,131,105		Harrawood et al.	07-21-1992	
	46.	4,996,975		Nakamura	03-05-1991	
	47.	5,086,401		Glassman et al.	02-04-1992	
	48.	5,299,288		Glassman et al.	03-29-1994	
	49.	5,431,645		Smith et al.	07-11-1995	
	50.	5,343,391		Mushabac	08-30-1994	
	51.	5,097,829		Quisenberry	03-24-1992	
	52.	5,175,694		Amato	12-29-1992	
	53.	5,368,428		Hussey et al.	11-29-1994	
	54.	5,091,656		Gahn	02-25-1992	
	55.	5,105,367		Tsuchihashi et al.	04-14-1992	
	56.	5,289,273		Lang	02-22-1994	
	57.	5,020,001		Yamamoto et al.	05-28-1991	
	58.	5,201,325		McEwen et al.	04-13-1993	
	59.	5,271,384		McEwen et al.	12-21-1993	
	60.	4,980,626		Hess et al.	12-25-1990	
	61.	4,965,417		Massie	10-23-1990	
	62.	5,098,426		Sklar et al.	03-24-1992	
	63.	5,123,095		Papadopoulos et al.	06-16-1992	
	64.	4,930,494		Takehana et al.	06-05-1990	
	65.	5,109,499		Inagami et al.	04-28-1992	
	66.	4,883,400		Kuban et al.	11-28-1989	
	67.	5,251,127		Raab	10-05-1993	
	68.	5,305,203		Raab	04-19-1994	
	69.	5,097,839		Allen	03-24-1992	
	70.	4,969,890		Sugita et al.	11-13-1990	
	71.	5,442,728		Kaufman et al.	08-15-1995	
	72.	4,979,933		Runge	12-25-1990	
	73.	4,979,949		Matsen, III et al.	12-25-1990	
	74.	5,403,319		Matsen, III et al.	04-04-1995	
TP	75.	5,236,432		Matsen, III et al.	08-17-1993	

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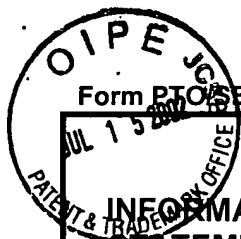
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				Group Art Unit	3731
				Examiner Name	Unknown
Sheet	3	of	8	Attorney Docket Number	155695-0244 (P006XCC)

TP	76.	5,571,110	Matsen, III et al.	11-05-1996
	77.	5,046,375	Salisbury Jr., et al.	09-10-1991
	78.	5,065,741	Uchiyama et al.	11-19-1991
	79.	4,989,253	Liang et al.	01-29-1991
	80.	5,019,968	Wang et al.	05-28-1991
	81.	4,949,717	Shaw	08-21-1990
	82.	4,954,952	Ubhayakar et al.	09-04-1990
	83.	4,969,709	Sogawa et al.	11-13-1990
	84.	4,815,450	Patel	03-28-1989
	85.	5,303,148	Mattson et al.	04-12-1994
	86.	4,853,874	Iwamoto et al.	08-01-1989
	87.	4,854,301	Nakajima	08-08-1989
	88.	5,142,930	Allen et al.	09-01-1992
	89.	4,815,006	Andersson et al.	03-21-1989
	90.	4,794,912	Lia	01-03-1989
	91.	4,852,083	Niehaus et al.	07-25-1989
	92.	4,762,455	Coughlan et al.	08-09-1988
	93.	4,863,133	Bonnell	09-05-1989
	94.	4,860,215	Seraji	08-22-1989
	95.	4,837,734	Ichikawa et al.	06-06-1989
	96.	4,791,940	Hirschfeld et al.	12-20-1988
	97.	5,455,766	Scheller et al.	10-03-1995
	98.	4,791,934	Brunnett	12-20-1988
	99.	4,728,974	Nio et al.	03-01-1988
	100.	5,078,140	Kwoh	01-07-1992
	101.	4,655,257	Iwashita	04-07-1987
	102.	4,945,479	Rusterholz et al.	07-31-1990
	103.	4,672,963	Barken	06-16-1987
	104.	4,635,292	Mori et al.	01-06-1987
	105.	4,676,243	Clayman	06-30-1987
	106.	4,616,637	Caspari et al.	10-14-1986
	107.	4,635,479	Salisbury Jr., et al.	01-13-1987
	108.	4,586,398	Yindra	05-06-1986
	109.	4,604,016	Joyce	08-05-1986
	110.	4,641,292	Tunnell et al.	02-03-1987
	111.	4,503,854	Jako	03-12-1985
	112.	4,633,389	Tanaka et al.	12-30-1986
	113.	4,624,011	Watanabe et al.	11-18-1986
	114.	4,517,963	Michel	05-21-1985
	115.	4,456,961	Price et al.	06-26-1984
TP	116.	4,401,852	Noso et al.	08-30-1983

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Form PTO/SB/08A (Modified)

**INFORMATION DISCLOSURE
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First Named Inventor	Yulun Wang
Group Art Unit	3731
Examiner Name	Unknown
Attorney Docket Number	155695-0244 (P006XCC)

TP	117.	4,523,884		Clement et al.	06-18-1985	
	118.	4,460,302		Moreau et al.	07-17-1984	
	119.	4,367,998		Causer	01-11-1983	
	120.	4,474,174		Petruzzi	10-02-1984	
	121.	4,221,997		Flemming	09-09-1980	
	122.	4,058,001		Waxman	11-15-1977	
	123.	4,128,880		Cray, Jr.	12-05-1978	
	124.	5,196,688		Hesse et al.	03-23-1993	
	125.	3,280,991		Melton et al.	10-25-1966	
	126.	3,171,549		Orloff	03-02-1965	
TP	127.	977,825		Murphy	12-06-1910	

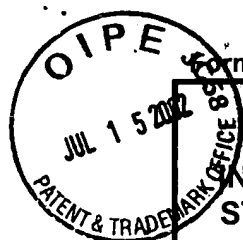
FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office	Number	Kind Code			
TP	128..		DE U 9204118.3		Zeiss	07-02-1992	
	129.		EP 0776738 A2		Green	06-04-1997	
	130..		WO 93/13916		Green	07-22-1993	
	131.		WO 91/04711		Henrion et al.	04-18-1991	
	132..		EP 0424687 A1		Baum et al.	05-02-1991	
	133..		EP 0239409 A1		Funakubo et al.	09-30-1987	

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Sheet	5	of	8		

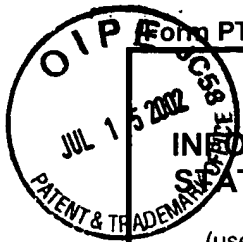
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
TP	134.	"Endocorporeal Surgery Using Remote Manipulators" (NED S. RASOR and J.W. SPICKLER) Remotely Manned Systems – Exploration and Operation in Space, California Institute of Technology 1973
	135.	"A Survey Study of Teleoperators, Robotics, and Remote Systems Technology" (ARTHUR D. ALEXANDER, III) Remotely Manned Systems – Exploration and Operation in Space, California Institute of Technology 1973
	136.	"Impacts of Telemation on Modern Society" (ARTHUR D. ALEXANDER, III), On the Theory and Practice of Robots and Manipulators Volume II, 1974
	137.	Transcript of a video presented by SRI at the 3rd World Congress of Endoscopic Surgery in Bordeaux on June 18-20, 1992, in Washington on April 9, 1992, and in San Diego, CA on June 4-7, 1992 entitled "Telepresence Surgery - The Future of Minimally Invasive Medicine"
	138.	Statutory Declaration of Dr. Philip S. Green, presenter of the video entitled "Telepresence Surgery - The Future of Minimally Invasive Medicine"
	139.	Abstract of a presentation "Telepresence: Advanced Teleoperator Technology for Minimally Invasive Surgery" (P. GREEN et al.) given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992
	140.	Abstract of a presentation "Telepresence: Advanced Teleoperator Technology for Minimally Invasive Surgery", (P. GREEN et al.) given at "Medicine meets virtual reality" symposium in San Diego, June 4-7, 1992
	141.	Abstract of a presentation "Camera Control for Laparoscopic Surgery by Speech-Recognizing Robot: Constant Attention and Better Use of Personnel" (COLIN BESANT et al.) given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992
	142.	"A Literature Review: Robots in Medicine" (B. PREISING et al.) IEEE June 1991
	143.	"Robots for the Operating Room" (ELIZABETH CORCORAN), The New York Times, Sunday July 19, 1992, Section 3, Page 9, Column 1
	144.	"Taming the Bull: Safety in a Precise Surgical Robot" (RUSSELL H. TAYLOR et al.), IEEE 1991
	145.	Abstract of a presentation "Design Considerations of a New Generation Endoscope Using Robotics and Computer Vision Technology" (S.M. KRISHNAN et al.) given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992
TP	146.	Abstract of a presentation "3-D Vision Technology Applied to Advanced Minimally Invasive Surgery Systems" given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992

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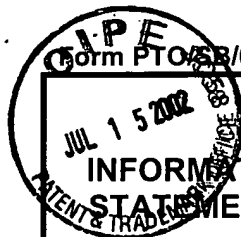
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Sheet	6	of	8	Attorney Docket Number	155695-0244 (P006XCC)

TP	147.	"Analysis of the Surgeon's Grasp for Telerobotic Surgical Manipulation" (FRANK TENDICK and LAWRENCE STARK), IEEE 1989
	148.	"Kinematic Control and Visual Display of Redundant Teleoperators" (HARDI DAS et al.), IEEE 1989
	149.	"A New System for Computer Assisted Neurosurgery" (S. LAVALLEE), IEEE 1989
	150.	"An Advanced Control Micromanipulator for Surgical Applications" (BEN GAYED et al.), Systems Science Vol. 13 1987
	151.	"Force Feedback-Based Telemicromanipulation for Robot Surgery on Soft Tissues" (A.M. SABATINI et al.), IEEE 1989
	152.	"Six-Axis Bilateral Control of an Articulated Slave Manipulator Using a Cartesian Master Manipulator" (MASAO INOUE), Advanced Robotics 1990
	153.	"On a Micro-Manipulator for Medical Application - Stability Consideration of its Bilateral Controller" (S. MAJIMA et al.), Mechatronics 1991
	154.	"Anthropomorphic Remote Manipulator", NASA Tech Briefs 1991
	155.	"Controlling Remote Manipulators through Kinesthetic Coupling" (A.K. BEJCZY), Computers in Mechanical Engineering 1983
	156.	"Design of a Surgeon-Machine Interface for Teleoperated Microsurgery" (STEVE CHARLES M.D. et al.), IEEE 1989
	157.	"A Robot in an Operating Room: A Bull in a China Shop" (J.M. DOLAN et al.), IEEE 1987
	158.	Abstract of a presentation "Concept and Experimental Application of a Surgical Robotic System the Steerable MIS Instrument SMI" given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992
TP	159.	Abstract of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992, entitled "Session 15/1"

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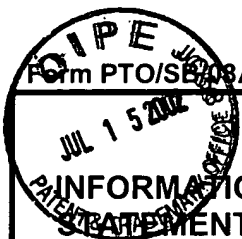
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Sheet	7	of	8	Attorney Docket Number	155695-0244 (P006XCC)

TP	160.	Abstract of a presentation "A Pneumatic Controlled Sewing Device for Endoscopic Application the MIS Sewing Instrument MSI" given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992
	161.	Abstract of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux (18 to 20 June 1992), entitled "Session 15/2"
	162.	Abstract of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux (18 to 20 June 1992), entitled "Session 15/4"
	163.	Abstract of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux (18 to 20 June 1992), entitled "Session 15/5"
	164.	"Properties of Master-Slave Robots" (C. Vibet), Motor-con 1987
	165.	"A New Microsurgical Robot System for Corneal Transplantation" (NORIYUKI TEJIMA), Precision Machinery 1988
	166.	"Human/Robot Interaction via the Transfer of Power and Information Signals - Part I: Dynamics and Control Analysis" (H. KAZEROONI), IEEE 1989
	167.	"Human/Robot Interaction via the Transfer of Power and Information Signals - Part II: An Experimental Analysis" (H. KAZEROONI), IEEE 1989
	168.	"Power and Impedance Scaling in Bilateral Manipulation" (J. EDWARD COLGATE), IEEE 1991
	169.	"S.M.O.S.: Stereotaxical Microtelemanipulator for Ocular Surgery" (AICHA GUERROUAD and PIERRE VIDAL), IEEE 1989
	170.	"Motion Control for a Sheep Shearing Robot" (JAMES P. TREVELYAN et al.), Proceedings of the 1st International Symposium on Robotics Research, MIT, Cambridge, Massachusetts, USA, 1983
	171.	"Robots and Telechairs" (M.W. THRING), Wiley 1983
TP	172.	Industrial Robotics (GORDON M. MAIR), Prentice Hall 1988 (pp. 41-43, 49-50, 54, 203-209 enclosed)

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TP	173.	"Student Reference Manual for Electronic Instrumentation Laboratories" (WOLF et al.), Prentice Hall, New Jersey 1990, pp. 498 and 499
TP	174.	"Surgery in Cyberspace" (TAUBES), Discover Magazine, December 1994

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